

CLAIMS

We claim:

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1. A method of reducing photooxidation or air oxidation in a product comprising the step of dispersing within the product an antioxidation composition comprising at least one amino acid, at least one metal ion, and at least one organic acid, the composition added in an amount sufficient to reduce photooxidation relative to a photooxidation-susceptible or air oxidation-susceptible material lacking the anti-oxidation composition.

2. The method of claim 1 in which the molar ratio of the amino acid compound to the metal ion is between 0.01 and 20.

3. The method of claim 1 in which the carboxylic acid to metal ion molar ratio is between 0.01 and 20.

4. The method of claim 2 wherein the molar ratio of the amino acid to metal ion is between 0.1 and 4.

5. The method of claim 2 wherein the molar ratio of carboxylic acid to metal ion is between 0.1 and 4.

6. The method of claim 1 wherein the composition also reduces color fading in materials selected from the group consisting of food, plastics, flowers and paper.

7. The method of claim 1 wherein the composition also reduces degradation of a substance selected from the group consisting of caffeine,

vitamins, folic acid, isoflavones, licorice, ginkgo, garlic, beta-carotene, peppermint, herbal extract, botanicals, natural and artificial flavors.

8. The method of claim 1, wherein the product is milk and wherein the level of the composition is between 0.001% and 2%.

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9. The method of claim 8, wherein the range is 0.01% to 1.0% and wherein the composition is 65% solid solution of lysine:mg:malic:citric with a molar ratio of 1.49:1.2:16:0.72.

10. The method of claim 1, wherein the product is white-chocolate and the level of the composition is 0.001% to 2%.

11. The method of claim 10, wherein the range is from 0.1% to 0.5% and wherein the composition is cream of lysine:ca:malic:citric with a molar ratio of 1.49:1.2:16:0.72.

12. The method of claim 1, wherein the product is plastic and the level of the composition is from 0.001% to 5%.

13. The method of claim 12, wherein the range is between 0.01% and 2%.